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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/579,626	05/26/2000	Ari Aho	442-009454-US(PAR)	7840
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PERMAN & GREEN 425 POST ROAD FAIRFIELD, CT 06824			AMINI, JAVID A	
			ART UNIT	PAPER NUMBER
			2672	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/579,626

Applicant(s)

AHO ET AL

Examiner

Javid A. Amini

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 9 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☐ Claim(s) \_\_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***Response to Arguments***

Applicant's arguments with respect to claims 1-7, 9-16 have been considered but are moot in view of the new ground(s) of rejection. The reference Rader has been applied to this invention as a prior art before.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 5-7, 9-19, 21-23 rejected under 35 U.S.C. 102(e) as being anticipated by

Rader 5,867,140.

1. Claim 1.

Rader in fig. 1 illustrates the step of “an electronic device, which comprises a display element to display information,” In the following step “wherein said display element has two modes, a full-screen mode use the entire display element to display a first information and a partial screen mode to use a first part of the display element in which partial screen mode second part of the display element is switched off” Rader in the abstract clearly teaches the two modes that an image control circuit (400, 501, see figs. 4-5) controls the operation of the display panel such that only a partial display field, or area, (305, see fig. 3) is controlled to generate images in a first operating mode to conserve power and the full display screen area (303, in fig.3) is controlled to

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generate images in a second operating mode. The following step of the claim claims that “the device comprises: means for switching the device into energy conservation mode by switching the display element to said partial screen mode”. Rader in col. 5, lines 19-26 teaches clearly the significant power savings in the partial display mode. The limitation of “means for controlling the display element during energy conservation mode to display information on said first part” Rader in col. 6, lines 5-14 discloses that pixel scanning is controlled by a pixel scanning controller 424. The pixel-scanning controller 424 converts the pixel information supplied at the output 444 of output switch 420 into a signal for application to the horizontal driver 313 and vertical driver 311. The conversion process includes gray scale interpretation of the pixel signal used to control the duty cycle (on time/off-time) of the coded pixel data. Any conventional pixel-scanning controller can be used to implement pixel-scanning controller 424, such as commercially available LCD controllers or the like. In the partial display-operating mode, Rader in col. 8, lines 58-64 teaches the output switch 420 can be controlled so as to blank different rows and columns, thus changing the location of the partial display field 305. By changing the blanked columns and rows, the partial display field sourced from the second buffer can be placed in different areas of the display screen. See following limitations of the claim “changing means for changing the position of the first part of the display element on the display element set intervals during energy conservation mode”.

2. Claim 2.

The step of “wherein said first part comprises an amount of image particles, and the power consumption of the display element corresponds to the amount of said image particles” The step is inherent because the power usage is proportional to the amount of image data of the display.

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3. Claim 5.

“the changing means arranged to change the position of said first part by scrolling the position on the display element”. Rader in col. 3, lines 6-8 discloses that the display image buffer 304 (fig. 3) is easily accessible to the CPU 312 to permit dynamic movement, such as scrolling, of objects, such as icons, and real time plotting.

4. Claim 6.

“Wherein said first part comprises a certain amount of rows”. The step is inherent because Rader in col. 3, lines 53-63 discloses the horizontal driver controls the voltage input to the rows of pixels on the display panel 200. The vertical driver controls the voltage input to the columns of pixels of the display panel 200.

5. Claim 7.

“wherein said first said first part comprises a certain amount of columns”. The step is inherent because Rader in col. 3, lines 53-63 discloses the horizontal driver controls the voltage input to the rows of pixels on the display panel 200. The vertical driver controls the voltage input to the columns of pixels of the display panel 200.

6. Claim 9.

“Which device comprises means for ending the energy conserving mode response one the following events: user input, incoming call, an increase in displayed information and a combination of these”. Rader in col. 3, lines 40-42 discloses the CPU 312 also has an internal sensor (not shown) that detects inactivity. If the CPU 312 receives no inputs from the user input 314 and RF circuit 318 for a predetermined period of time, the CPU can enter a sleep mode.

7. Claim 10.

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"which device is a mobile station". Rader in figs. 1-2 illustrates that.

8. Claims 12, 14 and 16.

See rejection of claim 5.

9. Claims 11, 13, 15, 17-18

See rejection of claim 1.

10. Claim 19

See rejection of claim 2.

11. Claims 21-23

See rejections of claim 5 and 9. Rader in col. 3, lines 40-42 discloses the CPU 312 also has an internal sensor (not shown) that detects inactivity. If the CPU 312 receives no inputs from the user input 314 and RF circuit 318 for a predetermined period of time, the CPU can enter a sleep mode.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3-4 and 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Rader, and further in view of Stedman et al. hereinafter refers as Stedman.

12. Claim 3.

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The step of “wherein the changing means is arranged to change the position of the first part in a certain order in certain intervals” Rader in col. 2, lines 22-31 discloses that the partial display field may be located in any region of the display screen, and it may be moved and/or its size altered, as will be described in greater detail herein below. But Rader does not explicitly specify a screen saver, however, Stedman in col. 5, lines 34-36 teaches a screen saver. Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to substitute applicant's described structure by modifying the Stedmans' BIOS 42 in fig. 2, that is a microcode software interface between an operating system or application programs and the hardware of system into Rader's fig. 5, number 418 the pixel fill circuit that can be controlled, or "programmed", in order to save the life of pixels.

13. Claim 4.

“wherein the changing means is arranged to randomly change the position of said first part”.

That is screen saver. See rejection of claim 3.

14. Claim 20

See rejection of claim 3.


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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 571-272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
JEFFERY BIER  
PRIMARY EXAMINER

Javid A Amini  
Examiner  
Art Unit 2672

Javid Amini